

BOOKMARK

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY REGION 6

HOUSTON BRANCH 10625 FALLSTONE ROAD HOUSTON, TEXAS 77099

RESUBMITTED DATA REVIEW REPORT

DATE: <u>May 21, 1996</u>	CASE #:	24517
*May 30, 1996	SAS #:	
TO: B. Canellas (6SF-RA)	SDG #:	FER94
	LAB :	AATSLA
FROM: Chris Covington - ESAT	SITE :	OLD BRAZOS FORGE
Region 6	PAGE:	1 of 2
ESAT#: 0-1685	TDF#:	6-6246A

EFFECTS OF RESUBMITTED INFORMATION ON THE ORIGINAL DATA:

Laboratory response to CCS request (received 5/20/96):

Pest/PCB

- 1. The original data assessment remains unchanged.
- 2. The laboratory submitted a corrected Form 7E. Please replace page 693 in the original data package.

*Laboratory response to Region 6 request (received 5/22/96):

A. VOA

- 1. The laboratory indicated that chromatogram and quantitation report were included in the initial calibration since this continuing calibration is part of the initial calibration.
- 2. The laboratory did not clarify the discrepancy in the calibration time. Although the "last calibration" time is not required by the contract, the discrepancy is a concern.
- 3. The laboratory demonstrated the correct use of the surrogate recovery equation from the SOW (OLM03.2, D-43/VOA, 11.2.4.3). The minor discrepancies in calculating the recoveries may be due to rounding errors. The original data assessment remains unchanged.

CONTINUATION PAGE RESUBMISSION REPORT

CASE 24517 SDG FER94 SITE OLD BRAZOS FORGE LAB AATSLA

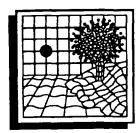
PAGE 2 of 2

B. BNA

- 1. The laboratory did not clarify the discrepancy in the calibration time. Although the "last calibration" time is not required by the contract, the discrepancy is a concern.
- 2. The laboratory submitted corrected Form I-TIC's and spectra for the peak at 19.17 minutes in samples FER41 and FER98. Please replace pages 288 and 416 and insert pages 297A and 430A in the original data package. The resubmitted disk has been placed in the case folder at Region 6.

C. Pest/PCB

- 1. The reviewer disagrees with the laboratory's interpretation of the SOW. The data useability remains unaffected.
- 2. The laboratory did not apply unique suffixes for each PEM, INDA, and INDB in this case although the resubmission claimed otherwise. The original data assessment remains unchanged.
- 3. The laboratory submitted a corrected Form 7E in response to the CCS request from 5/20/96. Please keep this page as additional data. The resubmitted disk has been placed in case folder at Region 6.
- 4. The laboratory indicated that in future cases the resolution check results would be reported correctly.



AMERICAN ANALYTICAL & TECHNICAL SERVICES, INC.

DATE:

May 21, 1996

TO:

Ms Christy Macdowell, Region VI, USEPA

FROM:

Russell McNiece, GC/MS Supervisor, AATSLA

SUBJECT:

Case 24517, SDG FER94

Enclosed is the laboratory's response to a fax from Chris Covington of 16 May, 1996 (a copy of which is enclosed for your reference) concerning the above mentioned case.

A. VOA

- 1. The continuing calibration for HP1 on 03/31/96 at 07:51 (file B2865) was part of the initial calibration. A Form VII was submitted which showed that the VSTD050 passed all criteria for use as a continuing calibration. The chromatogram and quantitation report are included as part of the initial calibration.
- The "last calibration" time on the sample quantitation reports is not required. The "Date Acquired" matches the date and time as shown on the Form V.
- 3. The SMC recovery calculations are demonstrated using sample FER34 (file B2854) as an example:

D₄-1,2-Dichloroethane area 188315 Bromochloroethane (internal standard) area 160001 D₄-1,2-Dichloroethane RRF from continuing calibration (file B2831) 1.440

 $188315 \div 160001 \times 50 \div 1.440 = 40.87 = 81.74$ recovery

82% recovery was reported on Form II.

B. BNA

- 1. The "last calibration" time on the sample quantitation reports is not required. The "Date Acquired" matches the date and time as shown on the Form V.
- 2. Enclosed are the requested library searches and the corrected Form IF's. A corrected Agency Standard disk is also enclosed.

C. PEST/PCB

- 1. No forms 6H, 6I, or 6J are required for the indicated standards as these are not part of the initial calibration (OLM03.1 SOW, page B-50, Section 3.12).
- The standards are uniquely identified by applying different suffixes (2F, F2, etc.).
- Corrected Form 7E and corrected Agency Standard disk is submitted.

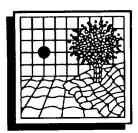
Ms Christy Macdowell May 21, 1996 - Page 2 -

4. Resolution Check results will be provided on one Form VI-PEST-4 in the future (where only two initial calibrations were used).

Should you have any questions or require additional information, please feel free to call me at (504) 753-8650.

RDM:vlj

Enclosures



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C. PEST/PCB

- 1. No forms 6H, 6I, or 6J are required for the indicated standards as these are not part of the initial calibration (OLM03.1 SOW, page B-50, Section 3.12).
- The standards are uniquely identified by applying different suffixes (2F, F2, etc.).
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Ms Christy Macdowell May 21, 1996 - Page 2 -

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RDM:vlj

Enclosures

Lockheed Martin Environmental Systems and Technology ESAT Region 6

1200 Smith Street, Suite 800, Houston, TX 77002 Tel: (713) 654-4843

FACSIMILE COVER SHEET

Please	deliver the following	pages to:
Name	Dr. Bagawandoss	
Firm	AATSLA	
City	Baton Rouge	State LA
Teleph	one (504) 753-8650	Ext.
Fax Te	elephone No. (504) 751-	1405 Ext.
Sender Name	Chris Covington	
	May 15, 1996	
Total	Number of pages includi	ng this Cover Sheet3
	do not receive all the call: (713) 654-4843	pages or if any pages are unclear,
MESSAG	ES: Resubmission reques	t for Case 24517 SDG: FER94 (0-1685)

Fax Model No. Xerox Telecopier 7033, Fax No. 713-654-4852

Page 1 of 2

In Reference to Case No(s):
24517 SDG: FER94 (0-1685)

Contract Laboratory Program REGIONAL/LABORATORY COMMUNICATION SYSTEM FAX Record Log

	Date of	FAX: ory Name:	May 15, 1996 AATSLA	
	Lab Cont	-	Dr. Baqawandoss	
	Region:	. Gambaaba	Ghair Garinghan RGAM	
	Regional	Contact:	Chris Covington - ESAT	
	FAX init	ciated by:	Laboratory X	Region
In	reference	to data for	the following fractions:	
	VOA	BNA	PEST/PCB	

Summary of Questions/Issues:

A. VOA

- 1. Continuing Calibration (HP1, 3/31/96, 07:51, file B2865): Please submit the chromatogram and quantitation report for this calibration which were omitted from the data package.
- 2. Please explain why the "last calibration" time on the sample quantitation reports does not match that of the associated calibration listed on Forms 5 and 7.
- 3. Please demonstrate the SMC recovery calculation used for all samples. Please verify that this calculation matches the equation in the SOW (OLM03.2, D-43/VOA, 11.2.4.3). Submit corrected forms and raw data if necessary.

B. BNA

- 1. Please explain why the "last calibration" time on the sample quantitation reports does not match that of the associated calibration listed on Forms 5 and 7.
- 2. Samples FER41 and FER98: The laboratory did not identify the peak at approximately 19.17 minutes as a target compound, TIC, or alkane for these samples. Please submit corrected Form I's and supporting data as necessary.

FAX COMMUNICATION LOG

Continuation Page 2
Laboratory/Contact AATSLA/Dr. Bagawandoss
In Reference To Case No. 24517 SDG: FER94

C. PEST/PCB

1. Forms 6H, I and J: Please submit the following required forms that were omitted from the data package.

Form 6H - PEM3F and PEM4F for instrument HP-3F PEM3F for instrument HP-2F

Form 6I - INDAM2F and INDAM3F for both instruments Form 6J - INDBM2F and INDBM3F for both instruments

- 2. When simultaneous injections are not used, the laboratory is to apply <u>different</u> suffixes to identify the PEM, INDA, or INDB standards. This applies to Forms 6 (G, H, I, and J), 7 (D and E) and 8D and the associated raw data (OLM03.2, B-35, 3.3.7.7). Please correct for future cases.
- 3. Form 7E INDAMF2 (pg. 693, instrument HP2F, 18:42): Form 7E has a reporting error for the TCX calculated amount which made the %D appear to have failed the QC criteria. Please submit a corrected Form 7E.
- 4. For future cases, please submit the resolution check solution results on one Form VI Pest-4 as requested in the SOW (OLM03.2, B-51, 3.12.3).

NOTE: Any laboratory resubmission should be submitted either as an addendum to the original CSF with a revised Form DC-2 or submitted as a new CSF with a new Form DC-2 (OLM03.0, p. B-29), except those containing only replacement pages. Custody seals are required for all CSF resubmission shipments.

Please respond to the above items. Region 6 resubmissions may be included with CCS response or sent separately within 7 days to:

Ms. Christy Macdowell
U.S. EPA Region 6 Laboratory
10625 Fallstone Road
Houston, TX 77099

If you have any questions, please contact me at (713) 654-4843.

Signature 5-15-96
Date

Distribution: (1) Lab Copy (2) Region Copy

000288 Va failst EPA SAMPLE NO.

FER41

1F SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

TENTATIVELY IDENTIFIED COMPOUNDS

o Name: <u>AATSLA</u>	Contract: <u>68-D5-0023</u>	
Lab Code: AATSLA Case No.: 24517	SAS No.: SDG No.: FER94	
Matrix: (soil/water) SOIL	Lab Sample ID: <u>1542705</u>	
Sample wt/vol: 30.0 (g/mL) G	Lab File ID: <u>77442</u>	
Level: (low/med) LOW	Date Received: <u>03/29/96</u>	
% Moisture: <u>14</u> decanted: (Y/N)	N Date Extracted: 03/30/96	
Concentrated Extract Volume: 500.0	(uL) Date Analyzed: 04/05/96	
Injection Volume:2.0(uL)	Dilution Factor: 0.5	

Number TICs found: __7

GPC Cleanup: (Y/N) Y pH: 7.6

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 2. 3. 4. 5. 6. 7.	Aldol condensation Aldol condensation Aldol condensation Aldol condensation Unknown Unknown Unknown	3.38 4.77 5.50 5.77 13.78 15.08 19.17	200 170 320 110 140 860 780	ABJ ABJ ABJ AJ J J

Tentatively Identified Compound (LSC)

Operator ID: AK Date Acquired: 5 Apr 96 17:32

Data File: C:\CHEMPC\DATA\040596\77442.D

Name: FER41

Misc:

EXT033096

HP6*USEPA*15427.05*30.00g/0.5ml/2uLL*MS517

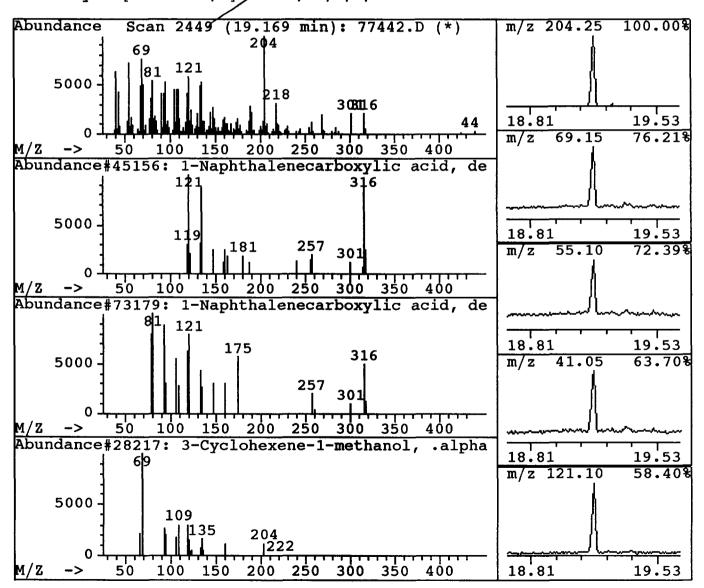
Method: OLMO3_1.M Inst: HP6

Title: AATS-BR SEMIVOLATILE CALIBRATION FILE Last Calibration: Fri May 17 08:22:44 1996

Library Searched: nbs75k.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
17.70	40.00 ug/mL	1989034	CI75 Pervlene-d12	79051

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
2 1-Naphthalenec	arboxylic acid, decah arboxylic acid, decah		001235-39-8 015798-13-7	72 50
3 3-Cyclohexene-	·1-methanol, /alpha.,4	28217	023178-88-3	49
4 Naphthalene, 1	.,2,3,5,6,7,8,8a-octah	69888	004630-07-3	46
5 Tricyclo[4.3.0	0.07,9]nønane, 2,2,5,5	24461	054832-82-5	43



SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

1F

		,	FER98
j	P Name: AATSLA	Contract: <u>68-D5-0023</u>	

Lab Code: AATSLA Case No.: 24517 SAS No.: _____ SDG No.: FER94

Matrix: (soil/water) SOIL Lab Sample ID: <u>1541105</u>

Sample wt/vol: <u>30.0</u> (g/mL) G Lab File ID: 77428

Level: (low/med) <u>LOW</u> Date Received: <u>03/28/96</u>

% Moisture: <u>15</u> decanted: (Y/N) N Date Extracted: 03/30/96

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 04/05/96

Injection Volume: _____2.0(uL) Dilution Factor: 0.5

GPC Cleanup: (Y/N) Y pH: 8.1

CONCENTRATION UNITS: Number TICs found: 12 (ug/L or ug/Kg) <u>UG/KG</u>

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	Aldol condensation	3.20	130	AJ
2.	Aldol condensation	3.37	460	ABJ
/3.	Aldol condensation	4.77	280	ABJ
4.	Aldol condensation	5.50	420	ABJ
5.	Aldol condensation	5.77	110	AJ
6.	Unknown	6.15	160	J
7.	Unknown	7.20	780	J
8.	Unknown	10.77	87	J
9.	Unknown	12.48	180	J
10.	Unknown	15.07	210	J
11.	Unknown	18.27	120	J
12.	Unknown	19.13	330	J

Date Acquired: 5 Apr 96 00:57 Operator ID: AK

Data File: C:\CHEMPC\DATA\040496\77428.D

Name: FER98

Misc:

EXT033096 HP6*USEPA*15411.05*30.00gml/0.5ml/2uLL*MS517

0004304

Method: OLMO3 1.M Inst: HP6

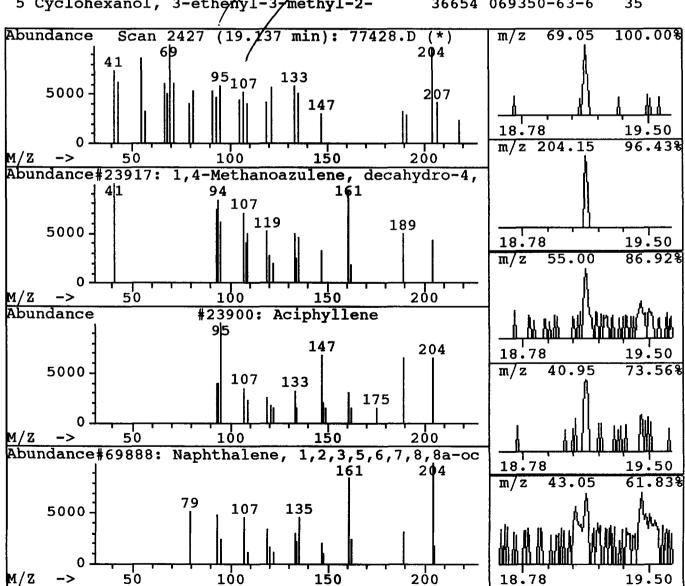
Title: AATS-BR SEMIVOLATILE CALIBRATION FILE

Last Calibration: Fri May 17 08:22:44 1996

Library Searched: nbs75k.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
19.14	16.82 ug/mL	56366	CI75 Peryléne-d12	65235

Tentative in	Ker#	CA5#	Quai
1 1,4-Methanoazulene, decahydro-4,8,8	23917	000475-20-7	62
2 Aciphyllene	23900	087745-31-1	38
3 Naphthalene, 1,2,3,5,6,7,8,82-octah	69888	004630-07-3	38
4 Cyclopropa[d]naphthalen-2(4aH)-one,	23869	004677-90-1	37
5 Cyclohexanol, 3-ethenyl-3-methyl-2-	36654	069350-63-6	35



7E PESTICIDE CALIBRATION VERIFICATION SUMMARY

OCC 693 Cotrected 11+ 5/17/96

Lab Name: AATSLA Contract: 68-D5-0023

Lab Code: AATSLA Case No.: 24517 SAS No.: SDG No.: FER94

GC Column: DB-1701 ID: 0.53(mm) Init. Calib. Date(s): 04/23/96 04/24/96

EPA Sample No. (PIBLK): PIBLKF2 Date Analyzed: 04/24/96

Lab Sample ID (PIBLK): EPA1-7-AF2 Time Analyzed: 1725

EPA Sample No. (INDA): INDAMF2 Date Analyzed: 04/24/96

Lab Sample ID (INDA): EPA1-12-AF2 Time Analyzed: 1842

INDIVIDUAL MIX A		RT WINDOW		CALC	NOM	
COMPOUND	RT	FROM	TO	AMOUNT	AMOUNT	%D
				(ng)	(ng)	
=======================================	=====	=====	=====	======	=======	====
alpha-BHC	6.32	6.27	6.37	0.0408	0.0400	2.0
gamma-BHC (Lindane)	7.14	7.08	7.18	0.0409	0.0400	2.2
Heptachlor	7.62	7.56	7.66	0.0411	0.0400	2.8
Endosulfan I	11.44	11.37	11.51	0.0427	0.0400	6.8
Dieldrin	13.18	13.10	13.24	0.0826	0.0800	3.2
Endrin	14.31	14.22	14.36	0.0841	0.0800	5.1
4,4'-DDD	17.47	17.39	17.53	0.0828	0.0800	3.5
4,4'-DDT	18.92	18.82	18.96	0.0855	0.0800	6.9
Methoxychlor_	24.74	24.66	24.80	0.418	0.400	4.5
Tetrachloro-m-xylene	4.51	4.46	4.56	0.0403	0.0400	0.8
Decachlorobiphenyl	29.68	29.57	29.77	0.0844	0.0800	5.5
	İ					i

EPA Sample No. (INDB): INDBMF2 Date Analyzed: 04/24/96

Lab Sample ID (INDB): EPA1-16-AF2 Time Analyzed: 1958

INDIVIDUAL MIX B		RT WINDOW		CALC	NOM	
COMPOUND	RT	FROM	то	AMOUNT	AMOUNT	%D
				(ng)	(ng)	
*======================================	=====	=====	=====	=======	======	====
beta-BHC	8.88	8.84	8.94	0.0427	0.0400	6.8
delta-BHC	9.68	9.63	9.73	0.0439	0.0400	9.8
Aldrin	8.28	8.24	8.34	0.0428	0.0400	7.0
Heptachlor epoxide	10.34	10.28	10.42	0.0430	0.0400	7.5
4,4'-DDE	12.38	12.32	12.46	0.0854	0.0800	6.8
Endosulfan II	17.66	17.60	17.74	0.0886	0.0800	10.8
Endosulfan sulfate	24.19	24.13	24.27	0.0875	0.0800	9.4
Endrin ketone	26.23	26.17	26.31	0.0898	0.0800	12.2
Endrin aldehyde	21.43	21.37	21.51	0.0759	0.0800	-5.1
alpha-Chlordane	11.89	11.83	11.97	0.0435	0.0400	8.8
gamma-Chlordane	11.64	11.58	11.72	0.0435	0.0400	8.8
Tetrachloro-m-xylene	4.49	4.46	4.56	0.0401	0.0400	0.2
Decachlorobiphenyl	29.66	29.57	29.77	0.0796	0.0800	-0.5